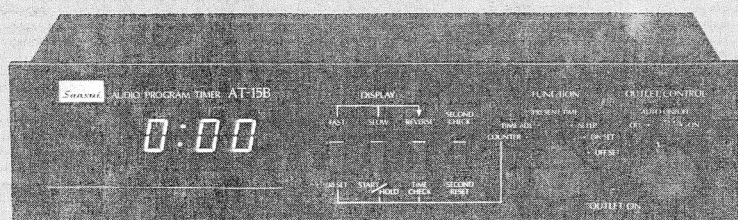


# SERVICE MANUAL

AUDIO TIMER

**SANSUI AT-15B  
AT-15S**



## SPECIFICATIONS

|                        |   |
|------------------------|---|
| Clock type             | 24-hour digital clock   |
| Indication accuracy    | Within $\pm 10$ seconds a month<br>(AC power supply synchronizing system)   |
| On/off preset timer    |   |
| Preset                 | On/off time can be preset at will by units of minute.   |
| Timer accuracy         | Within $\pm 0.02$ second of the set time  |
| Sleep timer            | Time of up to 1 hour 59 minutes can be set at will by units of minute   |
| Timer counter          | Capable of counting up to 1 hour 59 minutes 59 seconds 1 count for 1 second Indication is available in minute/second and hour/minute modes. |
| AC outlet              | 2 outlets, 700 W in total.  |
| Power supply voltage   | 110 to 120 V/220 to 240 V<br>(with the power supply voltage selector switch).   |
| Power supply frequency | 50/60 Hz (with the frequency selector switch).  |
| Power consumption      | 7 W   |
| Dimensions             | 270 mm (10-11/16") W<br>71 mm (2-13/16") H<br>121.5 mm (4-13/16") D   |
| Weight                 | 1.2 kg (2.6 lbs.) net<br>1.5 kg (3.3 lbs.) packed   |

\*Design and specifications subject to change without notice for improvements.



SANSUI ELECTRIC CO., LTD.

1. PARTS LOCATION & PARTS LIST

Photo-1

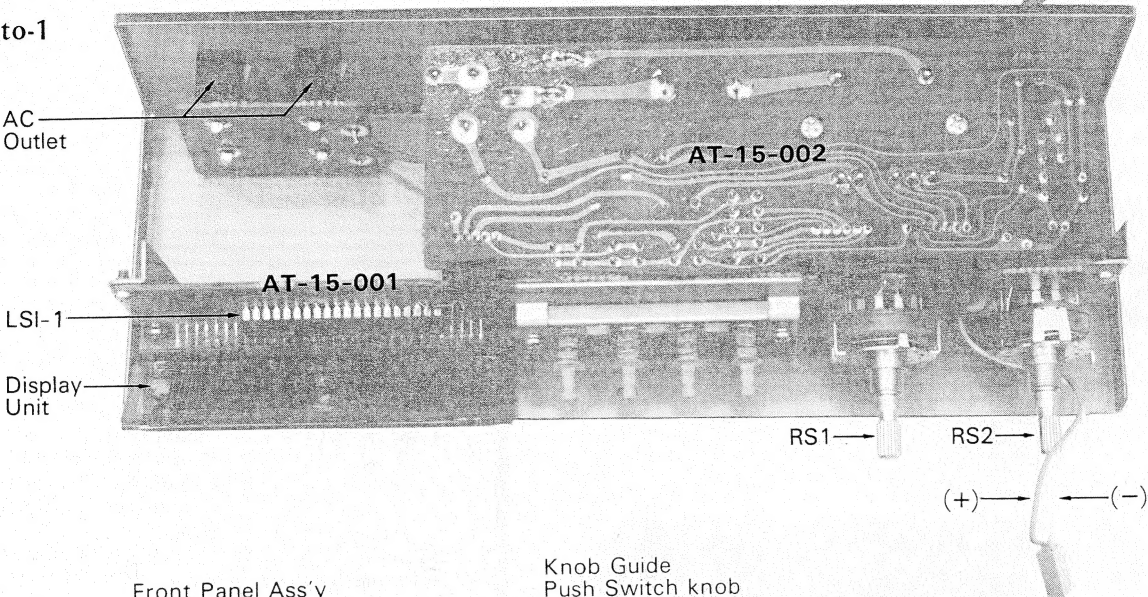


Photo-2

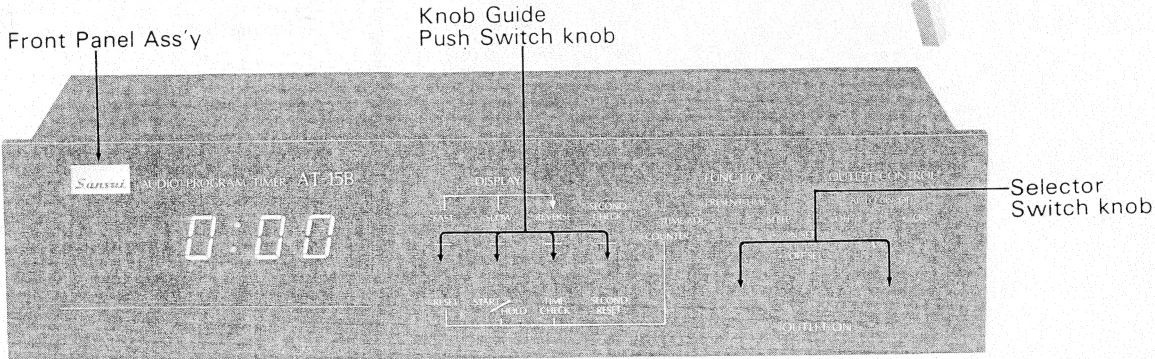
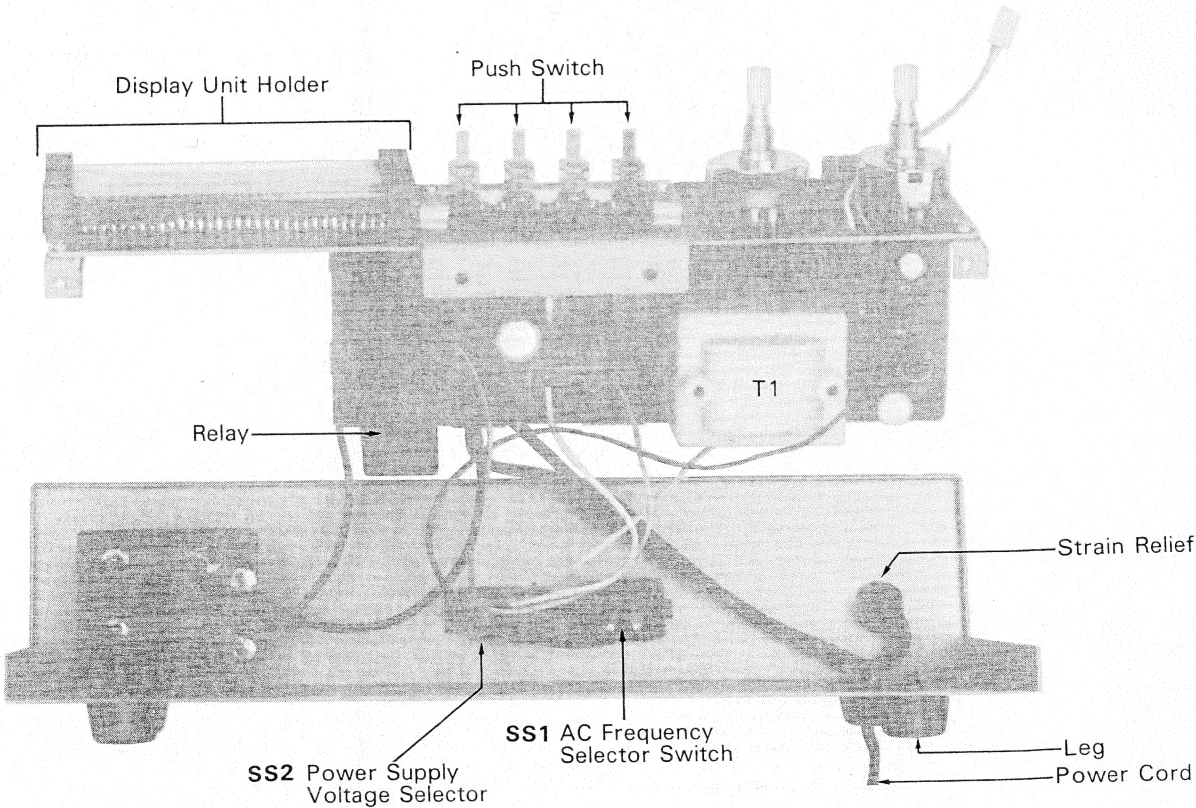


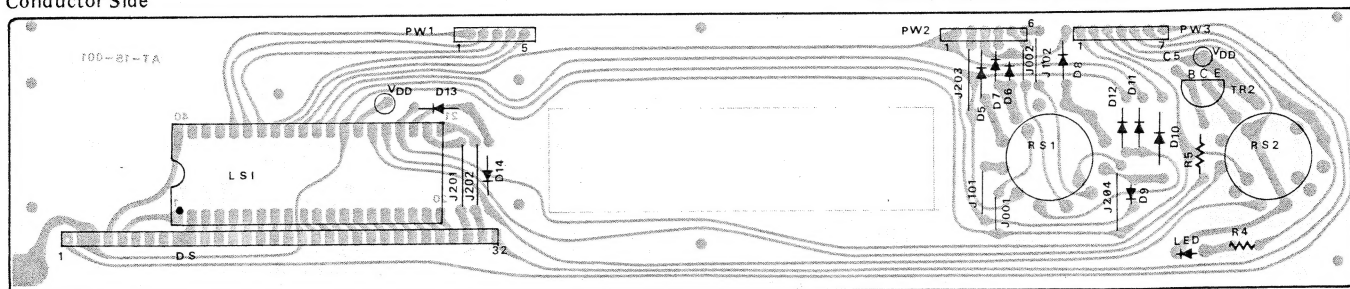
Photo-3





### 1-1. IC & Display Unit Circuit Board (AT-15XX-001)

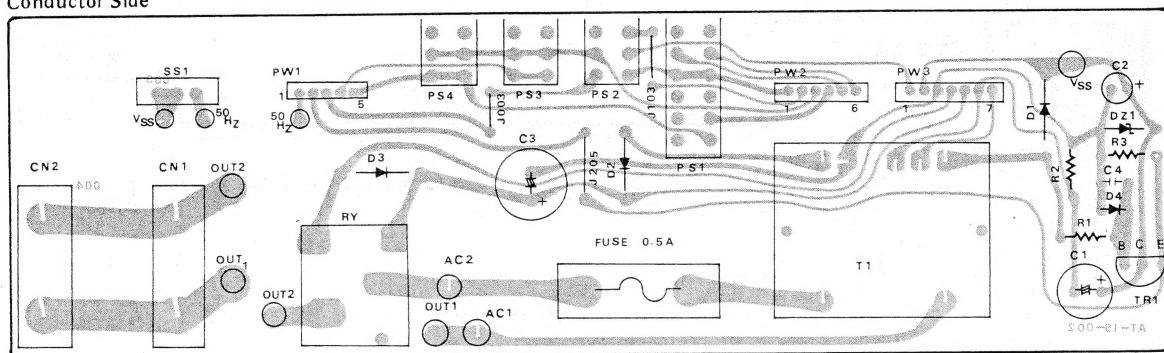
### Conductor Side



**Note:** The circuit board, AT-15-001/AT-15-002 are not supplied as the assembled, the individual parts on the circuit board, however, are provided for orders.

## 1-2. Power Supply & Push Switch Circuit Board (AT-15XX-002)

### Conductor Side



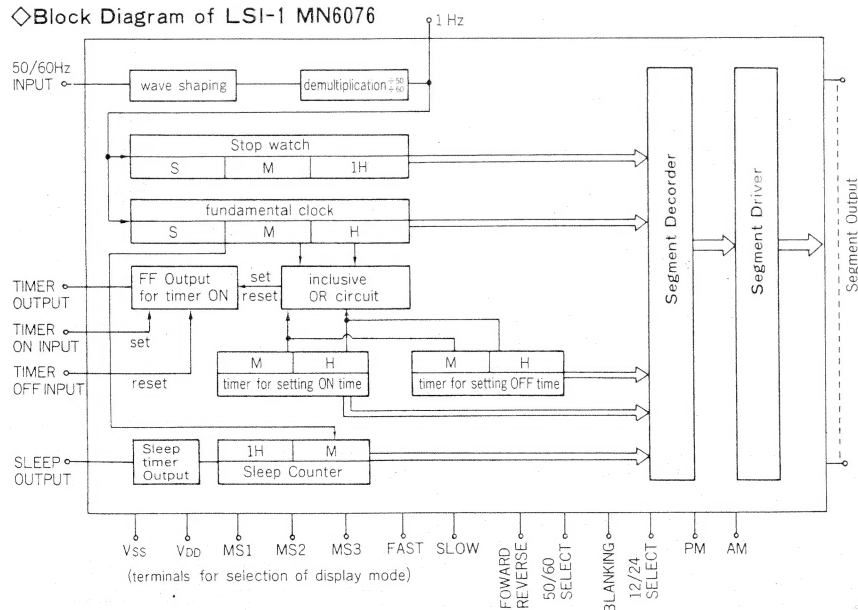
Parts List < Phts-1, 2, 3/ Circuit Board 1-1, 1-2>

| Parts No.    | Stock No. | Description                  | Parts No. | Stock No. | Description               | Parts No. | Stock No. | Description                |
|--------------|-----------|------------------------------|-----------|-----------|---------------------------|-----------|-----------|----------------------------|
| ● Transistor |           |                              | RS1       | 11019400  | Function Switch           |           | 53194800  | Push Knob . . . . . B      |
| TR1, 2       | 03059502  | 2SC945                       | RS2       | 11019500  | Outlet Control Switch     |           | 53194900  | Push Knob . . . . . S      |
| ● IC         |           |                              |           |           |                           |           | 55173400  | Leg                        |
| LS11         | 03612100  | MN6076                       | T 1       | 40031400  | Power Transformer         |           | 52965300  | Display Unit Holder        |
| ● Diode      |           |                              |           |           |                           |           | 50070000  | Bonnet                     |
| D 01 ~ 03    | 03117400  | 1N4002                       | PS 1 ~ 4  | 11320400  | Push Switch               |           | 39108200  | Strain Relief, AC Cord     |
| D 04 ~ 14    | 03111800  | 1S1588                       | CN1, 2    | 24501100  | AC Outlet                 | SS 2      | 11104200  | Slide Switch, power supply |
|              |           |                              |           | 38004701  | AC Cord                   |           |           | voltage selector           |
|              |           |                              |           | 07108700  | Front Panel Ass'y . . . B |           | 52970600  | Switch Stopper             |
| ZD01         | 03162900  | RD12EB                       |           | 07108100  | Front Panel Ass'y . . . S |           |           |                            |
|              |           |                              |           | 53967900  | Smoked Plate              |           |           |                            |
| DS1          | 00000200  | Display Unit                 |           | 53967700  | Knob Guide . . . . . B    |           |           |                            |
|              |           |                              |           | 53967800  | Knob Guide . . . . . S    |           |           |                            |
| RY           | 11505800  | Relay                        |           | 03191200  | LED                       |           |           |                            |
|              |           |                              |           | 07108600  | Selector Knob . . . . . B |           |           |                            |
| SS 1         | 11104100  | AC Frequency Selector Switch |           | 07108000  | Selector Knob . . . . . S |           |           |                            |

Note:  
 Since there are AT-15B & AT-15S in the parts list above,  
 please pay attention when ordering Parts.  
 Parts marked (B) in parts list . . . . . for AT-15B only  
 Parts marked (S) in parts list . . . . . for AT-15S only

Note:  
Since there are AT-15B & AT-15S in the parts list above,  
please pay attention when ordering Parts.  
Parts marked (B) in parts list . . . . . for AT-15B only  
Parts marked (S) in parts list . . . . . for AT-15S only

### ◆Block Diagram of LSI-1 MN6076

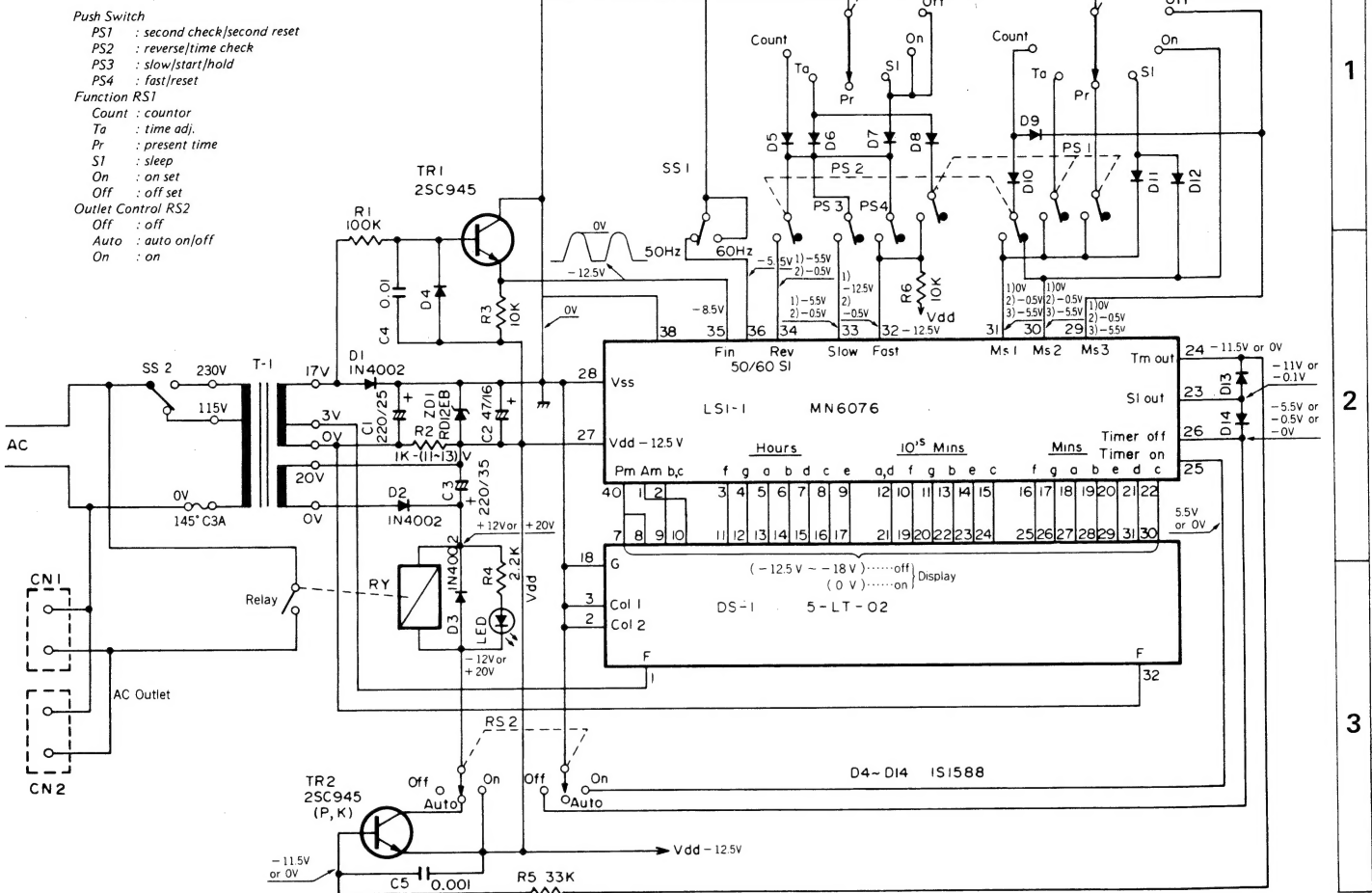


- REPLACEMENT OF IC & DISPLAY UNIT

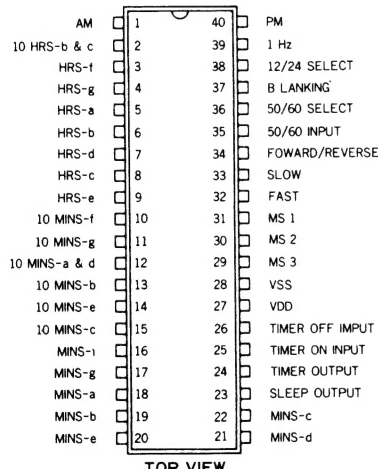
1. Remove bonnet and front panel ass'y.
2. Take out IC and display unit to this side.
3. Take off display unit holder at both sides then replace the IC to lean display unit toward this side. (The leads of display unit do not break off if the bending is within few times).

• Design and specifications subject to change without notice for improvement.  
• La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.  
• Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

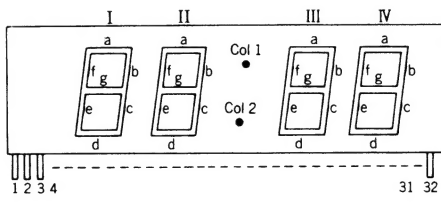
# 2. SCHEMATIC DIAGRAM



◇LSI-1 MN6076



◇Display Unit DS-1



| Segment             | AM             | PM                   | (b, c)  | a, b, c, d, e, f, g  | Cd1, Cd2 | (a, b) |
|---------------------|----------------|----------------------|---------|----------------------|----------|--------|
| Pin of Display Unit | 5              | 4                    | (9, 10) | 13 14 16 15 17 11 12 | 3 2      | 21     |
|                     |                |                      | I       | II                   |          | III    |
|                     | b c e f        | a b c d e f g        | Ground  | Heater               | Heater   |        |
|                     | 22 24 23 19 20 | 27 28 30 31 29 25 26 | 18      | 1 1                  | 32       |        |
|                     | III            | IV                   |         |                      |          |        |

